

Specifications — SW 6 CV/SV/SV A/SA/AV MX Switchers

Video

Gain	Unity
Bandwidth	30 MHz (-3dB)
Differential phase error	0.01°, 4.43 to 30 MHz
Differential gain error	0.03%, 4.43 to 30 MHz
Crosstalk	-70dB @ 3.58 MHz
Switching speed	160 nS (max.)

Video input

Number/signal type	6 S-video SW 6 SV MX, SW 6 SV A MX
	6 composite video SW 6 CV MX, SW 6 AV MX
Connectors	6 4-pin mini-DIN female SW 6 SV MX, SW 6 SV A MX
	6 BNC female SW 6 CV MX, SW 6 AV MX
Minimum/maximum levels	Analog 0.3V to 1.5V p-p with no offset
Impedance	75 ohms (all inputs are terminated at 75 ohms)
Return loss	-41dB @ 5 MHz
External sync (genlock)	0.3V to 0.4V p-p

Video output

Number/signal type	Individually buffered
	2 S-video SW 6 SV MX, SW 6 SV A MX
	2 composite video SW 6 CV MX, SW 6 AV MX
Connectors	2 4-pin mini-DIN female SW 6 SV MX, SW 6 SV A MX
	2 BNC female SW 6 CV MX, SW 6 AV MX
Minimum/maximum levels	Analog 0.3V to 1.5V p-p
Impedance	75 ohms
Return loss	-47dB @ 5 MHz
DC offset	±5mV maximum with input at 0 offset
Switching type	Vertical interval

Sync

Genlock connectors	2 BNC female
Standards	NTSC, PAL, SECAM
Input level	0.3V to 5.0V p-p SW 6 SV A MX
	0.5 to 5.0V p-p all other models
Output level	TTL 4V to 5V p-p
Polarity	Positive or negative (follows input)

Audio — SW 6 SA MX, SW 6 SV A MX, and SW 6 AV MX only

Gain	Unbalanced -15dB to +9dB, balanced -9dB to +15dB
Frequency response	20 Hz to 20 kHz, ±0.05dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at rated maximum output drive
S/N	>90dB at rated maximum output drive
Crosstalk	<-65dB @ 20 kHz, <-80dB @ 1 kHz or below 60 Hz, fully loaded
Stereo channel separation	>80dB @ 20 Hz to 20 kHz
CMRR	>75dB @ 20 Hz to 20 kHz

Audio input — SW 6 SA MX, SW 6 SV A MX, and SW 6 AV MX only

Number/signal type	6 stereo, balanced/unbalanced
Connectors	6 3.5 mm captive screw connectors, 5 pole
Impedance	
SW 6 SV A MX	>10 kohms unbalanced, >20 kohms balanced, DC coupled
SW 6 SA MX, SW 6 AV MX	>25 kohms balanced, 50 kohms unbalanced, DC coupled
Maximum level	+15dBu, (balanced or unbalanced) at stated %THD+N
Input gain adjustment	-15dB to +9dB, adjustable per input

Audio output — SW 6 SA MX, SW 6 SV A MX, and SW 6 AV MX only

Number/signal type	2 stereo, balanced/unbalanced
Connectors	2 3.5 mm captive screw connectors, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1dB channel to channel
Maximum level (Hi-Z)	>+21dBu, balanced or unbalanced at stated %THD+N
Maximum level (600 ohm)	>+15dBm, balanced or unbalanced at stated %THD+N

NOTE 0dBu = 0.775 volts (RMS).

Control/remote — switcher

Serial control port	RS-232, 9-pin D female connector
Baud rate and protocol	9600, 8-bit, 1 stop bit, no parity
Serial control pin configurations	2 = TX, 3 = RX, 5 = GND
Contact closure	9-pin D female
Contact closure pin configurations	1 = input 1, 2 = input 2, 5 = GND, 6 = input 3, 7 = input 4, 8 = input 5, 9 = input 6
Program control	Extron's control program for Windows® Extron's Simple Instruction Set™ – SIS™

General

Power	100VAC to 240VAC, 50/60 Hz, 10 watts, internal, auto-switchable
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 9.5" D (1U high, 1/2 rack width) 4.4 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors.)
Product weight	
SW 6 CV MX	2.9 lbs (1.3 kg)
SW 6 SV MX, SW 6 SA MX	2.7 lbs (1.2 kg)
SW 6 AV MX	3.3 lbs (1.5 kg)
SW 6 SV A MX	3.0 lbs (1.4 kg)
Shipping weight	
SW 6 CV MX, SW 6 SV MX, SW 6 SA MX	5 lbs (2.3 kg)
SW 6 AV MX, SW 6 SV A MX	6 lbs (2.7 kg)
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE Specifications are subject to change without notice.

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